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CLAIMS

What is Claimed is:

| 1 | 1. A vehicle for enabling attachment of an optic fiber to a multi-integrated |
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| 2 | optic chip in optical communication therewith, and for maintaining alignment of the |
| 3 | fiber at its end adjacent the chip, comprising: |
| 4 | a sleeve having a symmetrically-shaped cavity bounded by termini |
| 5 | which respectively interface with the chip and the fiber; and |
| 6 | an adhesive disposed within the cavity and symmetrically bonding the |
| 7 | fiber to the chip. |

- A vehicle according to claim 1 wherein:
- said cavity has an axis and is internally bounded by a wall which is substantially centered on the axis and which extends from said chip-interfacing terminus to said fiber-interfacing terminus;
- 5 said termini are centered on the axis; and
- a line lying within any plane intersecting the axis at right angles thereto and terminating in said cavity wall is bisected into two equal segments.
- 1 3. A vehicle according to claim 1 wherein said sleeve is configured to fit 2 onto the chip and is disposed to accept the fiber.

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attached to said adhesive and the chip.

A vehicle according to claim 3 wherein: 1 4. said cavity has an axis and is internally bounded by a wall which is 2 substantially centered on the axis and which extends from said chip-fitting terminus 3 to said fiber-accepting terminus; 4 said termini are centered on the axis; and 5 a line lying within any plane intersecting the axis at right angles 6 thereto and terminating in said cavity wall is bisected into two equal segments. 7 A vehicle according to claim 4 wherein said cavity wall slopes from 1 5. said chip-fitting terminus to said fiber-accepting terminus. 2 A vehicle according to claim 4 in which said sleeve so controls said 1 6. adhesive as to provide and preserve a symmetrical bonding of the fiber with 2 respect to the chip over gravitational and wicking effects. 3 A vehicle according to claim 6 in which said cavity wall is shaped as 1 7. 2 a truncated right circular cone. A vehicle according to claim 6 in which said cavity wall is shaped as 1 8. 2 a truncated pyramid.

A vehicle according to claim 4 in which said sleeve is temporarily

- 1 10. A vehicle according to claim 4 in which said sleeve is permanently attached to said adhesive and the chip.
- 11. A method for attaching an optic fiber to an optic chip and for 1 maintaining alignment of the fiber at its end adjacent the chip, comprising the steps 2 3 of: positioning a sleeve having a symmetrically shaped cavity on the chip; 4 placing an adhesive into the sleeve cavity; 5 inserting the fiber into the cavity; 6 securing the fiber to the chip; and 7 8 curing the adhesive.
- 1 12. A method according to claim 11 further comprising the step of aligning
 2 the fiber within the cavity and positioning the fiber end adjacent the chip.
- 1 13. A method according to claim 11 further comprising the step of 2 removing the sleeve from the chip after the adhesive has cured.
- 14. A method according to claim 11 further comprising the step of leaving
 2 the sleeve securely on the chip after the adhesive has cured.

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- 15. A method according to claim 11 further comprising the step of 1 providing the sleeve cavity with a truncated pyramid configuration. 2
- 16. A method according to claim 11 further comprising the step of 1 providing the sleeve cavity with a truncated right circular cone configuration. 2
- 17. A method for attaching an optic fiber to an optic chip and for 1 maintaining alignment of the fiber at its end adjacent the chip, comprising the steps 2 of: 3 utilizing a sleeve having a symmetrically shaped cavity; 4 placing an adhesive into the sleeve cavity; 5 positioning the sleeve onto the chip; 6 inserting the fiber into the cavity; 7 aligning the fiber within the cavity and positioning the fiber end 8 adjacent the chip; 9 securing the fiber to the chip; and 10 curing the adhesive.
 - 18. A method according to claim 17 further comprising the step of 1 removing the sleeve from the chip after the adhesive has cured. 2
 - 19. A method according to claim 17 further comprising the step of leaving 1 the sleeve securely on the chip after the adhesive has cured. 2

- 1 20. A method according to claim 17 further comprising the step of 2 providing the sleeve cavity with a truncated pyramid configuration.
- 1 21. A method according to claim 17 further comprising the step of 2 providing the sleeve cavity with a truncated right circular cone configuration.